

TOAD for Oracle 工具使用 (讲义)



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Toad&Oracle 优化

Toad——Tools of Oracle Application Developer

一、 安装 Toad 的注意点

- ✓ 在安装 oracle 时,要注意安装路径写成英文的路径,若写为中文的,则会安装失败。
- ✓ Commit after every statement 千万不要勾选
- ✓ Excute queires in threads 一定要进行勾选

二、 使用 Toad 一 登录

1. 登录到 Toad

👮 Toad for Oracle Database Login Version 9.7.2.5		
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Drag a column header here to group by that column User V Home Database Last Connect M. V Auto Connect Favorite Ali SYS OraClient CRISTINE 2010-10-25 9:57 SYSDBA	User / Schema: SYS] Password: ******* TNS Direct LDAP Database: CRISTINE	
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	TNSNames Editor LDAP Editor	
Save passwords Show favorites only Show selected home only	Connect Close	
Oracle Home: OraClient10g_home1 (version: 10.2.0.1.0)		

知识点:

- ✓ 做系统级的监控必须用 sys 用户或 system 用户登录。
- ✓ 用 sys 用户登录时, Connect as 选择 SYSDBA; 用 system 用户登录, Connect as 选择 Normal, 否则会报错。
- ✓ sys 是系统内置的一个管理用户,这个用户只能用来做管理。system 本质上讲是一个一般用户, 被赋予了管理员权限。

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一个连接可以开很多个 window,不同的 window 执行不同的任务,因此关闭了某个 window 并没有断 开连接,如果要真正断开连接,请看上图红框的地方。 通过上图中鼠标所指的位置可以开启新的 window

引申知识点:

在对表做更新操作时,若发现系统速度并不慢,但是点击执行以后没反应,则应该想到是不是该表被锁,查哪些表被锁的脚本是在 TIPTOP 下的@q_locktable。

2. 开启新的连接

session ----New Connection

🛃 Toad	for Oracle - [SYSTER	CRISTINE (topprod1:rx8640-	-1) - Editor (select * from ds.ima_file_10)]		
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7	select * from ds.ima_	Commit		-1	
10 11 12	<pre>select * from ds.ima_ commit;</pre>	Eollback Connect Disconnect			
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3. 创建新的连接

A. 通过 TNS 方式

🛒 Toad for Oracle Database Login Version 9.7.2.5	
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Save passwords Show favorites only Show selected home only	Connect Close
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	OK Cancel



鼎捷软件有限公司
Digi Win Software Co., Ltd.

I service		×
Description 1	Original Text:	
Address configuration Address 1		
Protocol: TCP/IP Host name: 172 16 100 15		
Port number: 1521		
	Formatted Text:	~
	2 (DESCRIPTION= 2 (ADDRESS=	
Service name: topprod	4 (PROTOCOL=TCP) 5 (HOST=172, 16, 100, 15)	
Connection type: Dedicated Server	(PORT=1521)	
Use Oracle 8 and previous identification (SID) Advanced	<pre>7) 8 (CONNECT_DATA= 4 (SERVED=dedicated)</pre>	
	10 (SERVICE_NAME=topprod)	~
Add., Delete		ancel

在 Connection type 的下拉框中选择以"D"开头的就可以

🛒 INSNames Editor	
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	OK Cancel



👷 Toad for Oracle Database Login Version 9.7.2.5				
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	SH11 SERVER			
	TAIWAIN_30_11			
Save passwords Show favorites only Show selected home only	Connect Close			
Oracle Home: OraClient10g_home1 (version: 10.2.0.1.0)				

注意:此时在 Database 的下拉框中并没有刚创建的连接 DIGIWIN_15,这时要重新连接一次就可以在 Database 的下拉框中看到连接 DIGIWIN_15,如下图所示:

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Save passwords Show favorites only Show selected home only	Connect Close	
Oracle Home: OraClient10g_home1 (version: 10.2.0.1.0)	.::	



B. 通过 Direct 方式

👷 Toad for Oracle Database Login Version 9.7.2.5	
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Show passwords Show favorites only Show selected home only	Close
Uracle Home: UrallientlUg_homel (version: 10.2.0.1.0)	
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sell <no name=""></no>	

4. 由于连接所引起的报错

情况一:

只需再执行一次,Toad 就可以自动连接。(如下图)

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▲ ORA-12571: TNS: 包写入程序失败	
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I	
	~
Reconnect Help Clipboard Details >> OK	

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ΤΙΡΤΟΡ

情况二:

需要断开连接,再开启连接。(如下图)

🥩 ТОА	D Error
⚠	Background session could not connect to Oracle
	⊆lipboard OK

三、 使用 Toad——数据紧急恢复

用例描述:

在 10 分钟前,某操作员不小心对 DS 用户下 ima_file 中栏位 ima261 的值做了修改,现在如何恢复 10 分钟 前的数据? (ima_file 的主键为 ima01)

解答:

如果未提交,则可以直接 rollback,如果已经提交,则按下面的步骤进行恢复

A. create table ds.ima_file _10 as

- **B.** select * from ds.ima_file-1/144;
- C. merge into ds.ima_file ot
- using ds.ima_file_10 nt

on (ot.ima01=nt.ima01) when matched then

update

set

ot.ima261=nt.ima261

引申知识点:

- ✓ Oracle 从 9i 开始就有闪回区,存放的是近期数据库更新前的内容,因此通过上述的语句,才能 抓到 10 分钟前的数据。
- ✓ 若在某些情况既可用 update 也可用 merge 实现操作, merge 的速度要比 update 的速度快 4—5
 倍。

四、 使用 Toad — 执行 SQL 语句

1. 执行单个 SQL 语句

方法一:直接将要执行的 SQL 语句选中,点击 🍡 ,执行(如下图所示)

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sell <no name=""></no>
1 Pselect count(*) from ds.ima_file;
Explain Plan

方法二:

在 SQL 语句的句尾,利用组合键 ctrl+Enter 来执行,但是注意的是,每条 SQL 语句之间要空行,否则会认为语法错误。

2. 批量执行

方法一:对于 update、insert、delete 可以用 begin 与 end 包括起来,点击 💁,执行。

方法二:选中要执行的语句,点击 2 ,就可以对选中的语句进行批量执行。

SQL 语句为: select count(*) from ima_file; select count(*) from occ_file;

执行结果为 (如下图):

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通过页签 Grid 1, Grid 2 分别查看每条 SQL 语句的执行结果(如下图)。

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知识点:

- ✓ 从上面图形中红框的部分可以看到, Toad 默认查询出前 500 笔资料, 如果要抓到所有的资料, 则 应该将右边的滑动······拖到最下面。
- ✓ 在导出数据之前,应该先抓到所有的资料。



3. 选择要导出的类型

知识点:

- ✓ Excel File 与 Excel Instance 的不同,用 Excel File 导出时,不同的查询结果都导出到不同的 Excel 文件中,而用 Excel Instance 导出时,不同查询结果会导出到同一个 Excel 中的不同页签。
- ✓ 若导出的数据要导入到不同类型的数据库,则需要在下拉框中选中 Insert Statement,在弹出的对 话框中。
- ✓ 导出表 ima_file 前十行数据的 SQL 语句是: select * from ima_file where rownum<=10, rownum 只 支持<= 或<, 不支持>= 或>。
- A. 导出类型为 Excel Instance

Save Grid	Contents		
Export format: Options Dataset Output • File Clipboard	Delimited Text Access Database File Delimited Text Excel File Excel Instance Fixed Field Splaying HTML Table Insert Statements Merge Statements SQL Loader XML (plain) XMI (with XSL)	Unix style save	T
Data Substitutio	n orted results in grid Ex t V In catement Comma ASCII value miter after the last column	<pre>cport selected rows clude column headers]Lowercase]Quoted 44 </pre>	W1n
(a) SYST	EM@CRISTINE	OK Cancel	

B. 导出类型为 Insert Statement

TIPTOP

📽 Save Grid Contents	
Export format: Insert Statements	
Options Dataset	
Output	
⊙ File C:\Documents and Settings\李锋\桌面\a.sql	
Compress file in zip format Unix style save	-
Launch after creation Create one file for all tal	bles
🔘 Clipboard	
Data Substitution	
Display all exported results in grid Export selected rows	
Include null text Include schema name	
Include SQL statement Lowercase column names	
Commit Interval: 0	
Table	
Automatically detect schema and name	
Schema: D54	
Name: TTT_FILE	

Schema 中填入的是导出的数据要导入到的数据库的 Schema; Name 中填入的是导出的数据要导入到的数据库的表名。 导出的文件如下:



页码:34 – 13



六、 使用 Toad 一 监控会话实时情况

A. database——Monitor——Top Session Finder (如下图)

- 1. 查找最最耗用系统资源的 session
- 🕰 Toad for Oracle [SYSTEL@CRISTINE (topprod2:rx8640-2) Editor (select + from ds.ima_file where rownum <= 100)] _ ||@||× 🛃 File Edit Search Grid Editor Session Database Debug View Utilities Window Help 8 ×. 🗟 🗞 🦉 💥 👯 🛃 🛷 🗐 🕸 - 🍇 📴 Iditor] 🚔 🖑 🐞 📥 📥 🛷 ▼ 🗦 🔹 🖓 ♦ Image: 🗞 Schema <u>B</u>rowser SYSTEM@CRISTINE [2] Administer 🚈 • 🖾 • 🛌 🚔 • 🌮 日 🗎 🖉 ▶ 📰 🔐 Sol ≡ ≫ Desktop: SQL ¥ . Compare 💌 🐴 🕶 🐉 🖕 Current Schema: SYSTEM Create x 🖻 🕲 🖹 🔪 🗙 🐅 💛 🐉 🖬 🖬 🖻 🖻 🕼 🖉 🖓 🔸 🔹 🔹 🍋 🕘 👰 • 🛤 📭 • 🖉 📖 合 🚡 ð. . _ Diagnose ଭୌ <No name> Export Import • ADDM/AWR Reports Monitor Optimize AWR Browser • 🝟 Database <u>B</u>rowser Report Spool SQL 🖌 🔜 Database Monitor 10 🔁 Database Probe ▶ □ select * from ds.ima_file where rownum Index Monitoring 🔛 Instance Manager Server Statistics 💥 S<u>e</u>ssion Browser Data Grid 鑙 SGA Trace/Optimization 🚺 Data Grid 🖹 Auto Trace 🕼 DBMS Output (disabled) 🖹 Query Viewer StatsPack Browser Script Output 🐔 SQL Monitor 🍇 | | ▪ ▪ ► ► ↔ = </ × | 📥 🚢 | [MAC21 IMAC3 IMAC4 IMA Unix Winitor VIMA01 IMA02 MAO9 IMA10 IMA11 IMA12 IMA13 IMA14 IMA15 IMA16 IMA1 ▶ 96071186 5x12元机不锈钢螺丝 9607 Α 0005 Ν Ν 99 20420001 瓜子片 丹比 Μ 2042 0001 99 24 Ν Ν А 20420002 芝麻片 丹比 24 м 2042 0001 99 A Ν Ν 20420003 蝴蝶酥 舟比 24 А М 2042 0001 Ν Ν 99 20325033 鲜奶酪 丹比. 23 А М 2032B 0001 Ν Ν 99 丹比 20325034 法式乳酪 23 А М 2032B 0001 Ν Ν 99 20325035 奥地利沙哈 丹比 23 А М 2032B 0001 Ν Ν 99 20325036 摩卡咖啡 丹比 23 А М 2032B 0001 Ν Ν 99 20420004 椰子片 丹比 24 A М 2042 0001 Ν Ν 99 < > 7: 1 Row 1 of 100 total rows SYSTEM@CRISTINE Modified 🗟 Editor AutoCommit is OFF CAPS NUM INS Top session finder Þ **B.** 点击 ,执行,在 Pie Chart 页签中查看相应的图表





知识点:

- ✓ 若客户系统有两个实例在运行,Instance则应该选择 all
- ✓ 通过 Stored Profiles 的下拉框来选择用系统的哪项资源来衡量最耗用资源的会话,比如内存、I/O 等。
 - C. 单击相应的区块,出现如图所示的信息



通过对话框可以知道如下信息:

- SID: 会话编号(重要)
- Oracle User: 说明是在哪个库中
- OS User: 说明是哪个类型的作业
- Machine: 若 OS User 为 tiptop,则为运行该作业的主机名称;若 OS User 为 PL/SQL,则为做该 SQL 语句的操作员的机器名称。



2. 根据会话编号 SID 查找进程号

在 Editor 窗口中输入:

select * from v\$session where sid='3223',执行

🎜 Toad for Oracle - [SYSTEMOCKISTIME (topprod2:rx8640-2) - Editor (select * from v\$session where sid='3223')]	
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	-
SYSTEM@CRISTINE [2]	
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<pre>1 * select count(*) from ds.hma_file; 2 * select count(*) from ds.hma_file; 3 select count(*) from ds.hma_file; 4 select count(*) from ds.hma_file; 5 select count(*) from ds.hma_file; 6 select count(*) from ds.hma_file; 7 select * from ds.hma_file vhere rownma <= 100; 9 lb select * from v\$session where side;'3223';</pre>	
	v
Data Grid	t ×
🔲 Data Grid 🖹 Auto Trace 🔗 DBMS Output (disabled) 🖺 Query Viewer 🐚 CodeXpert 🔛 Explain Plan 🗎 Script Output	
Image: With the second seco	sp6k
	8
282 means Dow 1 of 1 botal your SVSTEMG/DISTING and Modified	
Beditor II. Top Session Finder	
AutoCommit is OFF CAPS NUM INS	
注意: ■ OSUSER 这个栏位,若该作业的类型为 TIPTOP,则该栏位的值就是 TIP ■ PROCESS 这个栏位则为相应的进程号 ■ LOGON_TIME 这个栏位(如下图),假设现在的时间是 2010-10-26 8:29 进程是死进程。	TOP的用户名 9:59,则有很大的嫌疑词
🕂 📼 🛷 🛠 🔓 🛓 Cancel	
ROW WATE ROW# LOCON TIME LAST CALL ST ROM ENABLED	
COM_MATI_COM# LOGON_TIME LAST_CALLET FOML_ENABLED	
0 2010-10-25 8:29:59 11284 NO	
<u>补本知识</u> 上	
✓ 在 RAC 架构中,可以透过 gv\$session 视图来查看所有实例中的会话。	
✓ 进程号中有冒号,例如: 5496:3792, PL/SQL 用 Toad 执行就会这样,因为	windows 系统是多线
程, 而个是多进程。	

- ✓ 通过 v\$sql 可以查看存放在库缓冲中最近执行过的 sql 语句。
- ✓ 查看 ima_file 的表结构
 - desc ima_file
 - 在 Editor 窗口中,按住 ctrl 键,用鼠标单击"ima_file",所有的对象都可以用这种方法快捷 地查看到其相关信息。
- 3. 根据进程号查找所属的作业
- 在 TIPTOP 下输入: ps-ef|grep 19477



p	ps -ef grep 194	477			
00016326 19477 19476	0 08:29:58 pt:	s/tp 0:00	/ul/genero.run/lib/fglrun-bin	/ul/topprod/tiptop/aim/42r/aimt3	70 3
tiptop 16344 13431	1 11:41:30 pt:	s/th 0:00	grep 19477		

查找出执行的作业是 aimt370

七、 使用 Toad 一 监控索引

1. 开启索引监控

Database——Monitor——Index Monitoring



补充知识点:

- 索引的特点是: 方便数据查询, 不方便数据更新, 因此, 索引不能随便建。
- 经验:一个索引若三个月没有用到,就可以删除。



八、 使用 Toad — 系统近期效能报告 ASH

1. Database—Monitor—ADDM/AWR Reports





Instance: 所选取的实例 Starting Time: 监控开始的时间 Ending Time: 监控结束的时间

3. 将该报告保存,并取一个有意义的名称。

Toad for Oracle - [SYS@CRISTINE (topprod2:rx8640-2) - ADDM/AVR]	
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■ 聽 智 深 課 転 ● 国 专・ № 同・ 臣・ 長・ 名 音 ① 🏶 🚖 🌲 グ・ 券・ シ 📜 (default) – 🔍 🗗・ 🌶	
a spectrum [s]	
DM & AWR Reports AWR SQL Report WWR Diff Report ASH Report Snapshot Management Baseline Management Baseline Template Management	
starre: 1 Save Report to File	
ndno Time: 2010-10-25 V 23:59:59	
Top Objects/Files/Latches	
Top DB Objects Top DB Files	
• Top Lathes	
Back to Top	
Top DB Objects	
With respect to Application. Cluster, User VO and buffer busy waits only.	
Object 10 % Activity Event % Event Object Name (Type) Tablespace	
6348138 4.00 db file sequential read 3.48 ODS.OGB_FILE (TABLE) DBS1	
6406620 1.64 db file sequential read 1.64 [DS.TIC_LQE_07 (INDEX) DBS1	
6406581 1.57 db file sequential read 1.54 DS.TIC_LOE_04 (INDEX) DBS1	
6406519 1.51 db file sequential read 1.45 [DS.LOE_FLE (TABLE) [DBS1	
6346963 1.30 job hie sequential read 1.17 (DDS.OGB_PK (INDEX) DBS1	
@CRISTINE	
B Editor (# ADDM/AWR	
AutoConstitution CEE CARDO AUTOR DATA TARA CARDO AUTOR AND A CARDO AUTOR AUT	

ASH Report

- Top Events
- Load Profile
- Top SQL To PL/SQL
- Top Sessions
- Top Objects/Files/Latches
- Activity Over Time

5. 打开以后,如下图所示



Top SQL

- Top SQL Statements
- Top SQL using literals
- <u>Complete List of SQL Text</u>

Back to Top

Top SQL Statements

SQL ID	Planhash	% Activity	Event	% Event	SQL Text
aq24ufq14zy98	3334429317	5.39	db file sequential read	4.95	update lqe_file SET lqe17 <mark>= '4</mark>
d2wy8-avxfxn2	3705779976	4.54	db file sequential read	2.83	(SELECT OCC_FILE4.OCC01,
cftj54m54n1y1		1.68	db file sequential read	1.20	alter table posdc shrink space
18d65a2unfm9k	355778925	1.67	db file sequential read	1.57	SELECT DF.TABLESPACE_NAME , S
8r31mfn7dpuyq	2261867697	1.67	db file sequential read	1.62	select * from lqe_file wher

若看不全 SQL Text,则可以点击 SQL ID,快捷键,可以看到详细的 SQL 语句,如下图所示:

HTML Format	Text Format

cftj54m54n1y1 Ver table posdc shrink space CASCADE d2wy8fdvxfxn2 (SELECT OCC_FILE4.OCC01, rtrim(OCC_FILE4.OCC02), OGB_FILE.OGB04, rtrim(IMA_FILE.IMA02), AVG(RTH_FILE.RTH04), SUM(OGB_FILE.OGB16), SUM(OGB_FILE.OGE SUM(OGB_FILE_OGB47) '#'FROM OCC_FILE OCC FILE OCC	
d2wy8fdvxfxn2 (SELECT OCC_FILE4.OCC01, rtrim(OCC_FILE4.OCC02), OGB_FILE.OGB04, rtrim(IMA_FILE.IMA02), AVG(RTH_FILE.RTH04), SUM(OGB_FILE.OGB16), SUM(OGB_FILE	
and OGB_FILE.OGB04+IMA_FILE.IMA01(+)) AND (OGB_FILE.DBNAME=OGA_FILE DBNAME and OGB_FILE.OGB01=OGA_FILE.OGA01) AND (OGB_FILE.OGB030=TOB_FILE2.TOB01(+)) AND (OGB_FILE.DBNAME=RTH_FILE_DBNAME(+) and OGB_FILE.OGB04=RTH_FILE.RTH01(+) and OGB_FILE.OGB03=RTH_FILE.RTH02(+) and OGB_FILE.OGB030=RTH_FILE.RTH30(+)) AND (OGA_FILE.DGB04+RTH_FILE.RTH01(+) and OGA_FILE.OGB03=OCC_FILE4.OCC01(+)) AND (to_char(OGA_FILE.OGA02, 'YYYY/MM/DD') BETWEEN '2010/08/01' AND '2010/10/22' AND IMA_FILE.IMA131 In ('39', '4/ AND TOB_FILE2.TOB01 In ('A01000', 'C30000', 'C40000', 'C50000', 'C95000') AND trim('OGA_FILE.OGA99) Is NuII AND OGA_FILE.OGACONF = 'Y') GROUP BY OCC_FILE4.OCC01, rtmi('OCC_FILE4.OCC02), GGB.FILE.OGB04, rtmi('MIA_FILE.IMA02') '4 UNION SELECT RTRM('OCC_FILE5.OCC01), RTRIM('OCC_FILE5.OCC2), RTRIM ('MOONCAKE.PROD), RTRIM('IMA_FILE4.IMA02), AVG(MOONCAKE.PICE), SUM('MOONCAKE.OTY'), SUM(MOONCAKE.AMT), SUM(MOONCAKE.DISC), RTRIM('MOONCAKE, IMA_FILE IMA_FILE4.IMA21(+) '4') AND ('MOONCAKE.BRODD, RTRIM('IMA_FILE4.IMA2), AVG(MOONCAKE.PICE), SUM('MOONCAKE.OTY'), SUM('MOONCAKE.AMT), SUM('MOONCAKE.DISC), RTRIM('MOONCAKE, IMA_FILE4.IMA21(+) '4') AND ('MOONCAKE.BRODD_OCC_FILE6.OCC01(+) AND ('CC_FILE5.OCC1'), CTRIM('MOONCAKE.PROD)=MA_FILE4.IMA01(+)) AND ('MA_FILE4.IMA01(+)) AND ('MOONCAKE.IMA')) ('MOONCAKE.BRODD_OCC_FILE6.OCC01'), AND ('CC_FILE5.OCC1'), RTRIM('MOONCAKE.PROD), RTRIM('MOONCAKE.TYPE)) ('MOONCAKE.STYPE)), RTRIM(OCC_FILE6.OCC02), RTRIM('MOONCAKE.PROD), RTRIM('MA_FILE4.IMA02), RTRIM('MOONCAKE.TYPE))	14T), ME(+) ', '64') 'PE) '10/22'
dya98vu268h0f select SUM(rvv17*rvvud07) from ds3.rvv_file, ds3.ima_file, ds3.rvu_file, ds3.rui_file where rui00 = 'C10000' AND rvv31 = ima01 AND rvv930 = 'C10000' AND rvucond = '1 AND rvu01=rvv01 AND rvv12=rui01 AND rui03='3' AND ima105 IN('7', 'C')	0/10/24'
f92p0kcw81ntn select distinct YEAR(npp02), MONTH(npp02) from ds3.npp_file, nmy_file where nppsys= 'NM' AND (nppgIno IS NULL OR nppgIno = ' ') AND npp02=TO_DATE(2010-10-00 00:00:00', 'YYYY-MM-DD HH24:M:SS') AND npp01 like trim(nmyslip) -%' AND nmydmy3='Y' AND (YEAR(npp02) !=YEAR(10/10/09') OR (YEAR(npp02) =YEAR(10/10/09') MONTH(npp02) !=MONTH('10/10/09'))) AND npptype = '0' AND npp00 = 21	AND
ga9bpj63n3xsh select ds3.npp_file.*, ds3.npq_file.* from ds3.npp_file, ds3.npq_file, nmy_file where nppsys= 'NM' AND (nppgino IS NULL OR nppgino = ' ') AND nppsys= npqsys AND npp00=npq00 AND npp01 = npq01 AND npp011=npq011 AND npp02=TO_DATE('2010-10-03 00:00:00', 'YYYY'-MM-DD HH24:MI:SS') AND npp01 like trim(nmyslip) -%' ANI nmydmy3='Y' AND npptype = '0' AND npptype = npptype AND npp00 = 21)

注意:为什么要将该报告保存,因为直接在 Toad 上复制相应的语句是复制不下来的。

知识点:

- ✓ ADDM&AWR Reports 与 ASH Report 的不同点:
 - ADDM&AWR Reports 的监控时间长, ASH Report 监控时间短
 - ADDM&AWR Reports 采样的时间间隔长, ASH Report 采样的时间间隔短。
- ✓ ADDM&AWR Reports 与 ASH Report 是从 Oracle 10g 才开始有的。



九、 使用 Toad 一 查看 SQL 执行计划

1. 将刚才的 TOP SQL 放在 Toad 的 Editor 窗口中,点击 📫,执行

🕵 Toad for Oracle - [SYS@CRISTIME (topprod2:rx8640-2) - Editor (SELECT COUNT(*) FROM A01.TLF_FILE)]	- @ X
📰 File Edit Search Grid Editor Session Database Debug Yiew Utilities Tindow Help	_ 2 × .
🔋 🗟 📽 💥 😤 🖶 🛷 🗐 勢 + 💐 🖳 + 📴 + 😂 + 🖄 📬 🕐 😽 📩 🎝 🛷 + 🎺 + 🔍 🛫 (default) 💿 🔗 + 🌶	
54 SYS@CRISTINE [2]	
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No 🛪 🔞 • 🛤 No • 🖇 🖓 🖓 🖓 🖓 🖓 🖓 👘 👘 🕲 👘 👘 👘 👘 👘 👘 👘 👘 👘 👘 👘 👘 👘	· · · · · ·
kall <no name=""></no>	
BE RTRIM (MOONCAKE.TYPE))	~
89 90	
select SUM(rvv17*rvvud07) from ds3.rvv_file, ds3.ima_file, ds3.rvu_file, ds3.rui_file where ru100 = 'C10000' A	ND rvv31
	~
	>
Explain Plan	$\mathbf{t}\times$
🔟 Data Grid 🖹 Auto Trace 💕 DBMS Output (disabled) 🖹 Query Viewer 🐚 CodeXpert 🛛 🔛 Explain Plan 🖹 Script Output	
Plan	
2 the B: TABLE ACCESS BY INDEX ROWID TABLE DS3.IMA_FILE Cost: 5 Bytes: 330 Cardinally; 30	<u>^</u>
1 UDC RANGE SCAN INDEX DOS.IMA_04	
7	
G G → ^C NSTED LOOPS	
Cost: 11,934 Bytes: 243,937 Cardnality: 2,939 4 → © TABLE ACCESS FULL TABLE DS: ANU FILE	
Cost: 2,029 bitter: 11,700 Cardinality: 2,866	
Gost 2 Cardinality 22	
10 B []; TABLE ACCESS BY INDEX ROWID TABLE DS.RUI_FILE Cost: 2 Bytes: 80 Cardinality: 1	
9 L THOEX UNTQUE SCAN INDEX (UNTQUE) DS.RUI_01	~
4. Every row in the table DS3.RVU_FILE is read.	
91: 13 Row 1 of 1 total rows SYS@CR1STINE 🗰 Modified	
Reditor 🧟 ADDM/AWR	
AutoCommit is OFF CAPS NUM INS	

Plan	
SELECT STATEMENT ALL_ROWS	
Cost: 11,996 Bytes: 120 Cardinality: 1	
12 🖮 ≣↓ SORT AGGREGATE	
Bytes: 120 Cardinality: 1	· \
11 Em Canested Loops	
Cost: 11,996 Bytes: 120 Cardinality: 1	

知识点:

- ✓ 执行计划中的 TABLE ACCESS FULL 要关注。
- ✓ Cost 值越大表示耗用资源越多。
- ✓ 还要关注最上层的 Cost 值,在这里有个经验值,以 10000 为界限,超过 10000 就要予以关注。

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引申知识点:

✓ 在 Toad 的 Editor 窗口中,如何将很长的 SQL 语句格式化: Ctrl+Shift+F

✓ 查看存储空间大小的 SQL 语句: select (bytes)/1024/1024/1024 as sizeG

from dba_segments

where tablespace_name ="DBS1"

group by owner.segment_name

- order by sizeG desc;
- 这是大体的框架,具体从哪个维度去看,要灵活变化。
- ✓ 关于存储空间的大小有一个经验值,10000 笔数据大概 1M 左右,当然 2M 也是合理的,当数量级超过 10 的时候就要予以关注,比如 10M。
- ✓ 看表中记录的平均长度等信息的 SQL 语句: select * from dba_tables 该表中的栏位 NUM_ROWS 与 AVG_ROW_LEN 中所记录的值是统计类的数据,表中的数据天天都 在变,但是统计数据并不是天天都在变,统计信息只有系统重记表时才会发生变动。
- ✓ Oracle 的规则是: 当查询出的数据占记录数的 60%的时候就不会走索引。

十、 使用 Toad 一 查看各个数据库对象

1. Database — Schema Browser

😴 Toad for Oracle - [SYSGCRISTINE (topprod2:rx8640-2) - Editor (select * from v\$sql where rownum < 100)] 📃 📃	
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SYS@CRISTINE [2]	
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Eggort >	
91 RTRIM (MOONCAKE Import	
02 Monitor ▶	
select SUM(rvv17 solution in the select SUM(rvv17 Report s3.rvv_file, ds3.ima_file, ds3.rvu_file, ds3.rui_file where rui00 = 'C	100(
96 97 select * from dba_tables; Spool SQL >	
98 → select * from v\$srl where rownum < 100	-
Data Grid	a ×
🔲 Data Grid 👔 Auto Trace 🔓 DBMS Output (disabled) 📗 Query Viewer 隊 GodeXpert 🔯 Explain Plan 📔 Script Output	
No. 1 → N → C = √ X	
Ø SQL_TEXT	
select * from c70.pod_file	
INSERT INTO POSHB(SHOP,FNO,ITEM,PROD,CLRNO,SIZENO,UNIT,QTY,WNO,REQDATE,REQTIME,MEMO,CNFFLG,UCODE) VALUES ('C1E030', '2010102500100004','00	128',
INSERT INTO POSDB(SHOP, MACH, FDATE, XMODE, TRNO, ITEM, OPNO, SANO, ACCNO, PROD, PLUNO, SCANNO, WNO, SNO, ZNO, SUPP, UNIT, PRICE, PRICE_DISC, QTY, DISC, ITI	EM_
select imd09 from ds3.imd_file where imd01='C1C00201'	
INSERT INTO POSZC(SHOP,2C001,2C002,2C003,2C004,2C005,2C006,2C007,2C008,2C009,2C010,2C011,2C012,2C013,2C014,2C015,2C016,2C017,2C018,2C019,2C02	20,20
INSERT INTO POSDB(SHOP, MACH, FDATE, XMODE, TRNO, ITEM, OPNO, SANO, ACCNO, PROD, PLUNO, SCANNO, WNO, SNO, ZNO, SUPP, UNIT, PRICE, PRICE_DISC, QTY, DISC, ITI	EM_
INSERT INTO POSHB(SHOP,FNO,ITEM,PROD,CLRNO,SIZENO,UNIT,QTY,WNO,REQDATE,REQTIME,MEMO,CNFFLG,UCODE) VALUES ('C95007', '2010102500100001','00)13',
INSERT INTO POSDG(CREATOR, CREATE_DATE, CREATE_TIME, MODIFIER, MODI_DATE, MODI_TIME, VER_NUM, TRANS_TYPE, TRANS_TELG, TRANS_NUM, TRANS_DATE, TR	RAN
INSERT INTO POSDA(CREATOR, CREATE_DATE, CREATE_TIME, MODIFIER, MODI_DATE, MODI_TIME, VER_NUM, TRANS_TYPE, TRANS_TLG, TRANS_NUM, TRANS_DATE, TR	RAN
Selectimizin upu can undit = indin = indin = indin = indin undin = can undin undin = can undin undin = i, who mudin = i.	~
1 sec Row 69 of 99 total rows SYS@CRISTINE 📟 Modified	
Editor dt ADDM/AWR	
AutoCommit is OFF CAPS NUM INS Schema Browser	

2. 查看相关的对象

如下图所示,可以通过用红框框住的下拉框来选择看哪个用户的对象,通过点击不同的页签来看不同的对象,例如 tables、views、triggers 等。

TIPTOP

😴 Toad for Oracle - [SYS@CRISTINE (topprod2:rx8640-2) - Schema Browser (C51.TRI_ADK_FILE)]	BX
: By File Edit Search Grid Editor Session Database Debug Yiew Utilities Findow Help	. 8 × .
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system (2)	-
V TRLADK_FILE: Created: 2009-8-10 20:43:05 Last DDL: 2010-2-9 9:43:00 Status: Invalid	
Packages Triggers Indexes Const () On Table Control Autor, File	
Ing Trigger A	^
X TRI_ADK_FILE	10
TRIADLFILE 4 EDEFORE INSERTION DELETE ON OPDATE ON CS1_ADR_FILE REPERENCING OLD AS BIG_VAIUE NEW	A5
	=
IT INSERTUNG ON ADA. CS1 AZ ATILE	
TRLLQA_FILE 9 :new_value_ADK02.	
TRI_Q8_FILE II III III IIII IIII IIIIIIIIIIIIII	
TRI_ORN_FILE 12 :new_value ADK09, :new_value ADK08,	
IIII TRI COC FILE 14 :new_value ADK12,	
Image: NL_OCA_FILE 15 inew_value_ADK15_::new_value_ADK16_; Image: NL_OCA_FILE 16 :new value_ADK15_::new value_ADK16_;	
TRI_OEB_FILE 17 ::new_value_ADKMSC,	
TRI_OGA_FILE 19	
TRI_OGE_FILE 20 :new_value_ADK/SNAX; new_value_ADK/CONF.	
IN ONE OFF 22 INEVALUE ADVISED INVIGUE ADVISED IN THE ADVISED INTO AD	
IT TRLPMC_FILE 23 new_value_ADK/NDU: new_value_ADK/ND12	
TRI_RTH_FILE 22 Inset_value_ADKUD04, inset_value_ADKUD04,	
TRI_RUO_FILE 26 new_value_ADKUD05; new_value_ADKUD06; new_value_ADKUD08	
III TRI_RUP_FILE 28 :new_value.ADKUD10,	
Image: Market Apple Control (1997) 29 inew_value_ADKUDI1; inew_value_ADKUDI2; Image: Market Apple Control (1997) 30 inew_value_ADKUDI1; inew_value_ADKUDI4;	
TRI_RVIT_FILE 31 :new_value_ADKCOND.	~
	>
Cnt: 29 SYS@CRISTINE	
🗟 Editor 👷 ADDM/AWR 📚 Schema Browser	
AutoCommit is OFF CAPS NUM INS	

知识点:

从上图中可以看出有两个 Trigger 已经失效, Trigger 失效的原因有很多, 比如对表的结构做修正, 默 认相应的 Trigger 马上失效, 此时, 应该手动编译一下, 如下图所示。





十一、 使用 Toad 一 查看表空间

1. Database — Administer — Tablespaces



Tablespace	Usage	Size Mgs	Free Mgs	Used Mgs	Free Pct	Used Pct	Max Mb	Used Pct of Max
DBS_HIS		645340	179082	466258	28	72	645340	72
DBS1		588000	184678	403322	31	69	588000	69
SYSAUX		8020	2889	5131	36	64	8020	64
UNDOTB52		9118	5325	3793	58	42	9122	42
TEMPTABS		25000	16467	8553	66	34	25000	34
SYSTEM		30020	23876	6144	80	20	30024	20
UNDOTBS1		9118	8558	560	94	6	9122	6
USERS		5	5	0	96	4	1024	0
TEMP		23455	23338	117	100	0	23456	0

知识点:

- ✓ 在页签 Space History 中,提供了从时间上进行跟踪的功能。
- ✓ 应该关注的是表空间的使用率,这里也有一个经验值,当表空间超过80%的时候就应该予以关注。

τιρτυρ'

补充知识点:

在 TIPTOP 下,用脚本@q_tbsFREE 来看表空间(如下图所示)

COINT	R ar	$\pm b a$	ם תוחת
ואכתטכ	1913	പാട	r REE

Execute datetime

2010/10/25 15:10

TABLESPACE_NAME	Total (M)	Free(M)	Largest(M)	Used(%)
DBS_HIS		179081.81	3968	72.25
DBS1	588000	184675.38	3968	68.59
SYSAUX	8020	2889.25	2288.94	63.97
UNDOTBS2	9118	5325.13	557.88	41.6
TEMPTABS	25000	16466.56	3968	34.13
SYSTEM	30020	23875.63	3968	20.47
UNDOTBS1	9118	8562.88	2559.19	6.09
USERS	5	4.81	4.81	3.8

8 rows selected.

十二、 使用 Toad — 数据库健康检查

1. Database — Diagnose — DB Health Check

🛒 Toad for Oracle - [SYS@CRISTIME (topprod2:rx)	3640-2) - Editor (select * from v\$sql where rownum < 100)]
: 🛃 Kile Edit Search Grid Editor Session Database Debug	; <u>V</u> iew <u>U</u> tilities Window <u>H</u> elp _ 🗗 🗙
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🖡 🕘 😰 • 🛤 🍂 • 🖉 () 🔐 🔂	
sol <no name=""> Export</no>	CogeApert
91 RTRIM (MOONCAKE. Import	DB Health Check
92 93 Monitor 93 Optimize	Identify Space Deficits
94 select SUM(rvv17 Report	<pre>Logminer e, ds3.rvu_file, ds3.rui_file where rui00 = 'C100(Log Switch Frequency Map</pre>
96 97 select * from dba tables: Spool SQL	▶ Segment Advisor
98	Tablespace Map
99 🕨 select * from v\$sql where rownum < 100	T <u>K</u> Prof Interface
<	Irace File Browser
	Undo Advisor
Data Grid	u >

2. 执行

Checks and Options Schemas Report Output Diffs Since Last Run
Filter:
Name
📮 🔳 <u>Settings</u>
- Show output only for 'bad' conditions.
🚽 🖳 Suppress header for a database when report is empty.
- Include user comments at top of the report output.

- View For Items 29, 30, and 31, exclude objects in the 'SYSTEM' tablespace(s).



十三、 使用 Toad 一 对比表结构

1. Database — Compare — Schemas

😴 Toad for Oracle - [SYS@DIGIWIN_15	i - Editor]				- 7 🛛
🗄 🛃 File Edit Search Grid Editor Session	Database De <u>b</u> ug <u>V</u> i	ew <u>U</u> tilities <u>M</u> indow]	Help		_ 8 × •
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	<u>A</u> dminister	Pata	Desktop: SQL	👽 🔗 🛪 🕺 🕴 Current Schema: SYS	~
160 2 6 6 6 7 6 6 B	<u>C</u> reate Diagnose	Databases	* * * * P		×.
sআ <no name=""></no>	Export I	Schemas			
	Import Monitor	🛕 Single Objects			
	<u>O</u> ptimize <u>R</u> eport	•			
	Spool SQL	•			

2. 添加所要比对的数据库

🛒 Toad for Oracle -	- [SYSODICIVIN_15	- Compare Sche	as				- 2	×		
🐺 File Edit Search 🤅	<u>Grid</u> Edi <u>t</u> or <u>S</u> ession	<u>D</u> atabase De <u>b</u> ug <u>V</u> i«	ew <u>U</u> tilities <u>W</u> i	ndow <u>H</u> elp			_ 8 ×] -		
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SYS@DIGIWIN_15										
Schemas Online Object C										
- Reference Schema (Source) -	et							_		
Connection:										
SYS@DIGIWIN_15			~							
Schema:										
D51			~	漆加要比较的	的其中一个数据库					
Create Schema Definiti	ion File									
Schema Definition File:										
			~							
- Targets and Output								1		
Live Schemas							+	<u>]</u>		
Connection	Schema	Output Schema De	finition File	Difference Summary	Difference Detail		Sync Script		han and	
	_	Add		过两种方法	+都可以用来					
	_	<u>E</u> dit Selected		添加另外-	二个数据库					
		<u>D</u> elete Selected								
<u> </u>		De <u>l</u> ete All					>			
Def Files		Switch with Refere	ence Schema				+			
Def File Name	Difference Sum	mary	Difference Detail	Sync Script		Email Summary	Email Details			
<							>			
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ΤΙΡΤΟΡ

Define Target Schema and Output	
CTarget Schema	
• Connection:	
SYS@DIGIWIN_15	✓ …
Schema:	
DS2	
○Schema Definition File: 要比较的另外	► 个数据库
Output	
Schema Definition File:	Auto-Complete Output File Names
Difference Summary:	Email
Difference Details:	Email
Sync Script:	
	OK Cancel
3. 点击按钮 ▶, 执行	
Charget Schema: DS2@DIGIWIN_15 (1000 dirts)	
Schemas Options Object Set Results Synt Script ♦ \$1 \$\[\begin{bmatrix}{c} & & & & & & & & & & & & & & & & & & &	Dject Type
Group / Object Name 🔺 Parent Table	Differs By
Objects only in DS1@DIGIWIN_15	
H M M Constants - PK (136) H V M Indexes (209)	
Indexes (3) Indexes (425)	
🖃 🗹 🗾 Objects Which Differ	
Image: Image	

知识点:

在页签 Sync Script 中可以查看所有查找出的全部对象的同步脚本。

页码:34 – 27



4. 点开各个对象以后,查看其相应的同步脚本

Group / Object	Name 🔺	Parent Table Differs By	
🖃 🗹 🐔	Constrair	nts - PK (136)	
🗹	AAA_P/	000 ET E	
🔽	AAB_	<u>E</u> xpand All	
🔽	AAC_	Expand to 1st Level Only	
··· 🔽	AAD_	<u>C</u> ollapse All	
🔽	AAE_	Show Sync Script for Selected Items	
···· 🔽	AAF_	Show Difference Details	
🔽	AAG		
🔽	AAH	<u>G</u> roup By Object Type	
🗹	AAK_	S <u>a</u> ve to File	
🗹	AAO_	Send to Excel	
🗹	AAS_	Sh <u>o</u> w Summary	
···· 🗹	AAX_	<u>P</u> rint	
··· 🔽	AAY_PK	HAY_FILE	



把该脚本建起来,在 DS2 中执行一下,就可以了。



十四、 Toad 的秘密

如何知道 TOAD 在执行某项操作时,执行了哪些 SQL 语句

1. 打开相应的工具

方法一:

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接下来的操作是一样的

2. 选中 toad.exe



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5. 查看一下该 SQL 语句在 TOAD 中执行会有什么结果

鼎捷软件有限公司 DigiWin Software Co., Ltd.



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2. 在弹出的对话框中输入针对每个变量所赋的值

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知识点:
1. 在上述的 SQL 语句中,:p1、:p2 等变量,学名叫绑定变量。(BIND_DATA)
2. SQL 语句从客户端到数据库端,做的事情有:
✓ 判断 SQL 语句有没有语句错误
✓ Oracle 思考怎么执行该 SQL 语句,这个过程肯定会耗用资源
Oracle 如何优化性能——不做重复劳动,凡是可以被重用的东西都记下来,包括执行计划
3. 绑定变量应用于框架一样,只是里面具体的每个变量的值个一样的 SQL 语句。
因为在 Oracle 看米 卜 囬 两条 SQL 语句:
select * from ima_file where ima01=1
select * from fina_file where fina01=2 县西个不同的 SOI 语句
是要两个 SOL 语句的字符串不同。Oracle 就判断为两条不同的语句,如何让 Oracle 能够
利用原来的执行计划,就要用到绑定变量。
4. 如何杳看程序中哪些语句产生了绑定变量(例如程序 aimi100)
✓ r.r2d aimi100 (该命令也是执行这支作业,同时产生一个日志,说明在运行该作业
的过程中后台执行了哪些 SQL 操作。)
✓ vi aimi100.log
ora c 01315.3 Mat stut = select * from the file where $POMTD = \cdot n for undate MOMATT$
ora.c 01274 3 Prefetch rows = 0
SQL: DECLARE
sqlcode : 0 sql driver : ident='dbmoraA2x'
<pre> sql connection : ident='_l' (dbspec=[topprod]) sql cursor : ident='cu6' (fglname='i100 cl',module='aim aimi100')</pre>
fgl stmt : SELECT * FROM ima_file WHERE ROWID = ? FOR UPDATE NOWAIT sql stmt : SELECT * FROM ima_file WHERE ROWID = :pl FOR UPDATE NOWAIT
√ 杏爱汶句话对应代码用的那个语句
vi aimi100.4ol. 然后在程序中查找 FOR UPDATE NOWATE 这个字符串
LET g_forupd_sql = " SELECT * FROM ima_file ",
" WHERE ROWID = ? FOR UPDATE NOWAIT "
Promite 1100_01 console from g_rorepu_o41
LET $p_{row} = 2$ LET $p_{col} = 5$
4. 引申在程序中还有哪些语句会产生绑定变量
Prirer ine file & FDOW ine file
WHERE ima01 = g ima.ima01
INTO TEMP w1
#FUN-630041-begin
WHERE incol = "',g_ima.imaol CLIPPED,'"
PREPARE s_inc_p FROM g_sql
#FUN-630041-end



十六、总结知识点

知礼	只点:	
1.	把鼠标停在 SQL 所在行,然后 Ctr1+Enter 直接执行当前 SQL。	
	(注意:每条执行语句间要隔一个空行)	
2.	解决 Toad 对中文显示乱码问题:	
	系统环境变量加 NLS_LANG=AMERICAN_AMERICA.WE8IS08859P1	
3.	Toad 中自动提示功能,就像 plsql developer 那样:	
	输入表名前几个字母,然后用 Ctr1 + . 就可以弹出,如你输入:	
	SELECT * FROM emp t WHERE t.这时候停顿一下,会弹出 emp 的字段来供你选择。	
4.	如何支持代码自动更正,如输入 ndf,自动替换成 NO_DATA_FOUND,输入 sf 自动替换成	
	SELECT * FROM?	
	答: 在菜单 edit — editer_options — auto_replace 中设定,可以设置任何想自动替	
	换的单词 。	
5.	Toad 如何实现多线程,像 plsql developer 那样可以取消当前的操作?	
	答:安装的时候有选项设置,如果未设置进入 view-toad options-oracle-transactions,	
	把第一个选项选上。	
6.	在 Toad 的 SQL Editor 中修改查询的数据:	
	SELECT rowed, b.* FROM acc_bill b 就可以修改数据了	
7.	使用 Object Palette 吧,很棒: 在 view — Object Palette 找到入口。	
	点击后在 SQL Editor 窗口右侧产生一个窗口,里面可以根据 schema 选择对象类型,比	
	如 table,出现的表名双击后就出现在 SQL 编辑器里了,下面还有字段名。	
8.	格式化 SQL 语句(SQL 编辑窗口)Ctrl+Shift+F	
9.	F8 调出以前执行的 SQL 命令。	- A.
10.	F4 移动到表上,查看表的描述。	
11.	F5 执行选择所有 SQL。	
12.	F9 执行全部 SQL。	